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APPLICATION N	ю.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/693,369		10/20/2000	Joel E. Short	42253/205	8237	
826	7590	02/24/2006		EXAMINER		
ALSTO			CALLAHAN, PAUL E			
		ICA PLAZA ON STREET, SUIT	ART UNIT	PAPER NUMBER		
CHARLO	OTTE, NO	C 28280-4000	2137			
				DATE MAILED: 02/24/200	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	tion No.	Applicant(s)	-				
Office Action Summary			369	SHORT, JOEL E	<u>:</u>				
			er	Art Unit					
		Paul Ca	llahan	2137					
Period fo	The MAILING DATE of this communior Reply	cation appears on t	he cover sheet w	vith the correspondence ac	idress				
WHIC - Exte after - If NO - Failt Any	ORTENED STATUTORY PERIOD FO CHEVER IS LONGER, FROM THE MA nsions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commit of period for reply is specified above, the maximum star ure to reply within the set or extended period for reply we reply received by the Office later than three months af ed patent term adjustment. See 37 CFR 1.704(b).	AILING DATE OF T of 37 CFR 1.136(a). In no of unication. tutory period will apply and will, by statute, cause the a	THIS COMMUNI event, however, may a will expire SIX (6) MO pplication to become A	ICATION. reply be timely filed NTHS from the mailing date of this of BANDONED (35 U.S.C. § 133).					
Status									
1)⊠	Responsive to communication(s) filed	d on <i>02 November</i>	2005						
•	This action is FINAL . 2b) This action is non-final.								
3)	<u>-</u>								
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims								
4)⊠	Claim(s) <u>1-4,6-10,12-14 and 16-23</u> is/are pending in the application.								
	4a) Of the above claim(s) is/ar	e withdrawn from o	consideration.						
5)□	Claim(s) is/are allowed.								
6)⊠	Claim(s) <u>1-4,6-10,12-14,16,17 and 21-23</u> is/are rejected.								
7)🖂	Claim(s) 18-20 is/are objected to.								
8)□	Claim(s) are subject to restrict	tion and/or election	requirement.						
Applicat	ion Papers								
9)	The specification is objected to by the	e Examiner.							
*	The drawing(s) filed on is/are:	·	o) objected to	by the Examiner.					
•	Applicant may not request that any object			-					
	Replacement drawing sheet(s) including				FR 1.121(d).				
11)	The oath or declaration is objected to	by the Examiner.	Note the attache	d Office Action or form P	ΓΟ-152.				
Priority ι	under 35 U.S.C. § 119								
	Acknowledgment is made of a claim f ☐ All b)☐ Some * c)☐ None of:	or foreign priority u	nder 35 U.S.C.	§ 119(a)-(d) or (f).					
	1. Certified copies of the priority of	documents have be	en received.						
	2. Certified copies of the priority of	documents have be	en received in A	Application No					
	3. Copies of the certified copies of	of the priority docun	nents have beer	received in this National	Stage				
	application from the Internation	· ·	• • •						
* \$	See the attached detailed Office action	n for a list of the cer	tified copies not	received.					
Attachmen	` '		_						
	e of References Cited (PTO-892)	-0.048)		Summary (PTO-413) s)/Mail Date					
3) 🔲 Inforr	e of Draftsperson's Patent Drawing Review (PT nation Disclosure Statement(s) (PTO-1449 or F r No(s)/Mail Date	•		nformal Patent Application (PTC) -152)				
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DETAILED ACTION

1. Claims 1-4, 6-10, 12-14, and 16-20 were pending in the Application at the time of the previous Office Action. New claims 21-23 have been added via the amendment of 11-02-05. Therefore, claims 1-4, 6-10, 12-14, and 16-23 are pending in the application and have been examined.

Response to Arguments

2. Applicant's arguments filed 11-02-05 have been fully considered but they are not persuasive.

The Applicant argues in traverse of the rejections of the claims that Malkin fails to teach subscriber specific network specific service tunnel requirements where the network service tunneling requirements include information for identifying tunneling requirements for each of those services. Yet Bots et al. was used to teach these features at page 11, lines 1-19, and page 12 lines 1-20.

The Applicant argues that Malkin fails to teach a subscriber profile that contains subscriber specific tunneling requirements. The Examiner reiterates that Malkin does teach such a feature at Sec. 3 Operational Algorithm. Such is taught; for example, where Malkin's "provisioned information" includes such information as an endpoint identifier, encryption key used in authentication, max no. of users, etc.

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-4, 6-10, 12-14, 16, 17, and 21-23 are rejected under 35 U.S.C. 103(a) as being obvious in view of Malkin, "Dial-in Virtual Private Networks Using Layer 3 Tunneling", IEEE, 11/1997, and Bots et al., International Application PCT/US98/12229, 12 June 1997.

As for claims 1, 6, and 7, Malkin teaches a method for dynamically creating a tunnel in a communications network to provide subscribers host access to a network service (Introduction, p.555), comprising: storing a subscriber profile in a network database (Sec. 3. Operational Algorithm, page 556, paragraph 5), wherein the subscriber profile includes subscriber-specific network service tunneling requirements (Sec. 3. Operational Algorithm, page 556, paragraphs 4, 5: "FQDN", Fig. 2 step 5); receiving at a network device a first subscriber data packet associated with a first network service (Sec. 3. Operational Algorithm, page 556, paragraphs 4,5); accessing the subscriber profile to determine if the first network service has a subscriber-specific tunneling requirement; and creating a first tunnel if a determination is made that the subscriber profile requires a first network service tunnel (Sec. 3. Operational Algorithm

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page 556, fig. 4 steps 4, 5), wherein the first tunnel has a first end point at the network device and a second end point at the first network service (Sec. 3 Operational Algorithm, page 556, paragraphs 4,5). Malkin does not teach a subscriber profile that includes subscriber specific network service tunneling requirements for a plurality of network services that are available to the subscriber, the network service tunneling requirements including information for identifying tunnel requirements for each of those services. However Bots does teach these However Bots does teach these features at page 11, lines 1-19, and page 12 lines 1-20. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate these features into the system of Malkin. It would have been desirable to do so since the ability to handle multiple subscribers with differing tunneling requirements would increase the utility of the system.

As for claims 21 and 22, Malkin does not teach receiving at the network device a second subscriber data packet associated with a second network device, accessing the subscriber profile to determine if the second network service has a subscriber-specific tunneling requirement, and creating a second tunnel if a determination is made that the subscriber profile requires a second network service tunnel, wherein the second tunnel has a first end point at the network device and a second endpoint at the second network service and coexists simultaneously with the first tunnel. However Bots does teach these features at page 11, lines 1-19, and page 12 lines 1-20. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate

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these features into the system of Malkin. It would have been desirable to do so since the ability to handle multiple subscribers with differing tunneling requirements would increase the utility of the system.

As for claim 2, Malkin teaches the method of Claim 1, wherein storing a subscriber profile comprises storing at least one parameter chosen from the group consisting of the network access identifier, a user/subscriber name and a user/subscriber password (Sec. 3 Operational Algorithm, page 556 bottom, fig. 2 step 5).

As for claim 3, Malkin teaches the method of Claim 1, further comprising determining if a first tunnel between the network device and the first network service pre-exists prior to creating the tunnel between the network device and the first network service (Sec. 3 Operational Algorithm, page 556, paragraph 5, fig. 2 step 4).

As for claim 4, Malkin teaches the method of Claim 1, wherein more than one subscriber accessing the communication network through the network device can simultaneously transmit data packets to the first network service via the first tunnel (Sec. 6.2 Maximum User Count, page 559, 2nd paragraph).

Claims 9 and 10 represent the apparatus carrying out the method of claims 1-3, and are rejected on the same basis as those claims.

As for claims 8 and 12, Malkin teaches a network device that dynamically creates a tunnel in a communications network to provide a subscriber host access to a destination network (Sec. 1: Introduction pages 555-556), comprising: a processor that receives from a subscriber a data packet associated with a network service (Sec. 3: Operational Algorithm, page 556, paragraphs 2-4); a database accessed by the processor that stores a subscriber profile that defines the tunnel requirements for the network service (Sec. 3: Operational Algorithm, page 556, paragraphs 2-4); and a tunnel management module implemented by the processor that communicates with the database to determine if the subscriber requires a tunnel for access to the network service and, if a determination is made that the tunnel is required, the tunnel management module creates a tunnel access session between the network device and the network service (Sec. 3: Operational Algorithm, page 556, paragraphs 2-4, fig. 4 steps 4, 5). Malkin does not teach a tunnel management module that is capable of creating more than one tunnel access session for simultaneous access session for simultaneous subscriber access to more than one network service where more than one subscriber accessing the communications network through the network device can simultaneously transmit data packets to the first network service via the first tunnel and the second network service via the second tunnel. However Bots does teach these features at page 11, lines 1-19, and page 12 lines 1-20. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate these features into the system of Malkin. It would have been desirable to do so since the

ability to handle multiple subscribers with differing tunneling requirements would

increase the utility of the system

As for claim 13, Malkin teaches the network device of Claim 12, further

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comprising a session management module implemented by the processor that

communicates with the database to manage the tunnel access session provided by the

network device (Sec. 3: Operational Algorithm, page 557, right-hand column, fig. 2, step

8).

As for claim 14, Malkin teaches the network device of Claim 12, wherein the

tunnel management module determines if a tunnel between the network device and the

network service pre-exists prior to creating the tunnel between the network device and

the network service (Sec. 3: Operational Algorithm, page 556, paragraph 4, fig. 2, steps

4).

As for claim 16, Malkin teaches the network device of Claim 12, wherein the

tunnel management module is capable of providing simultaneous access to the tunnel

access session to more than one subscriber accessing the communication network

through the network device (Sec. 6.2 Maximum User Count, page 559, 2nd paragraph).

As for claim 17, Malkin teaches the network device of Claim 16, further

comprising a session management module implemented by the processor that

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communicates with the database to manage the simultaneous tunnel access session provided to more than one subscriber accessing the communication network through the network device (Sec. 6.2 Maximum User Count, page 559, 2nd paragraph).

As for claim 23, Malkin does not teach a tunnel management module that is capable of creating more than one tunnel access session for simultaneous subscriber access to more than one network service. However Bots does teach these features at page 11, lines 1-19, and page 12 lines 1-20. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate these features into the system of Malkin. It would have been desirable to do so as allowing such subscriber access to multiple network services would increase the utility and hence marketability of the system.

Allowable Subject Matter

5. Claims 18-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

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6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul E. Callahan whose telephone number is (571) 272-3869. The examiner can normally be reached on M-F from 9 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, Emmanuel Moise, can be reached on (571) 272-3865. The fax phone number for the organization where this application or proceeding is assigned is: (571) 273-8300.

2-18-06

Pul Cullahe Pullahe Primary Examine April Unit 2137